

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric Franklin on 11/12/2009.

In claims:

Claim 10, lines 1-2; replace **"A computer program directly loadable into the internal memory of a computer"** with **--A computer program encoded into a non-transitory computer readable medium--**.

Claim 11, lines 1; replace **"A computer readable carrier medium"** with **--A non-transitory computer readable medium--**.

Allowable Subject Matter

4. Claims 1-15 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The closest prior art fails to explicitly disclose correlating step comprising the further sub-steps of over-sampling the representation of the received signal within the uncertainty region to obtain a corresponding over-sampled representation of the received signal, the over-sampling being equivalent to a reduced chip period which is

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shorter than the nominal chip period, selecting a local spreading sequence containing poly-phased symbol values which are different from the set of symbols represented by the received signal, the selected local spreading sequence having a nominal chip period being equivalent to the reduced chip period, and cross-correlating the over-sampled representation of the received signal with the selected local spreading sequence to obtain an improved uncertainty region which is more limited than one half nominal chip period. The distinct feature of the independent claims renders the claims allowable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DHAVAL PATEL whose telephone number is (571)270-1818. The examiner can normally be reached on M-F 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dhaval Patel/

Examiner, Art Unit 2611

11/12/2009

/Shuwang Liu/

Supervisory Patent Examiner, Art Unit 2611